



MATERIAL SAFETY DATA SHEET #1046

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DATE: 2/15/01
SUPERSEDES: 3/30/00

I. PRODUCT IDENTIFICATION

Product: Iron Plus Granular & Iron Plus Granular-Elite **Chemical Family:** Inorganic Metal Fertilizer Salts
Chemical Name/Synonyms: Micronutrient Fertilizer Compound

II. PRODUCT INFORMATION: INGREDIENTS

Hazardous	THRESHOLD		
Chemical Name	LIMIT VALUE	%(by wt.)	CAS#
Iron Sulfate	1.00 mg Fe/m ³	40	7720787
Iron Oxide	5.00 mg Fe/m ³	28	1332372
Magnesium Oxide	10.00 mg Mg/m ³	4	1309484
Manganese Oxide	1.00 mg Fe/m ³	4	1344430
Magnesium Sulfate	10.00 mg Mg/m ³	2	7487889
Manganese Sulfate	1.00 mg Mn/m ³	2	7785877
Copper Oxide	1.00 mg Cu/m ³	0.28	1317391
Zinc Sulfate	5.00 mg Zn/m ³	0.17	7733020
Copper Sulfate	1.00 mg Cu/m ³	0.14	7758998
Zinc Oxide	5.00 mg Zn/m ³	0.10	1314132
Sodium Molybdate	5.00 mg Mo/m ³	0.001	7631950
Inert ingredients		19-20	NA

III. PHYSICAL AND CHEMICAL CHARACTERISTICS

Boiling Point:	NA	Specific Gravity (water=1):	NA
Melting Point:	ND	Bulk Density (lbs./cu. ft.):	95
Vapor Pressure (mm Hg):	NA	Evaporation Rate:	NA
Vapor Density (air = 1):	NA	Percent Volatile:	NA
Solubility in Water:	Approximately 50%	Appearance and Odor:	Dark brown granule, slight metallic odor.
pH:	4.0-6.5		

IV. FIRE AND EXPLOSION HAZARD DATA

Flash Point (method Used):	NA (Non-combustible)	Auto Ignition Temperature:	NA
Lower Explosion Limits:	NA	Upper Explosion Limits:	NA
NFPA/HMIS RATING:	HEALTH 1	REACTIVITY	0

Extinguishing Media: This product is noncombustible. This product is not a flammable material, but metallic fume can be released under intense heat. Use media for extinguishing fire.

Special Fire-Fighting Procedures: Do not wash material into any streams, waterways, drainage ditches or storm sewers, etc. Impound liquids used in firefighting to prevent entry into streams, ditches, sewers, etc.

Unusual Fire and Explosion Hazards: None known. Not an explosion hazard.

V. HEALTH HAZARDS

Primary Route(s) of Entry: Skin, eyes, inhalation, ingestion.

Signs & Symptoms of Exposure

Acute: Can cause moderate to severe eye irritation and mild to moderate skin irritation. Inhalation of spray may cause respiratory tract and mucous membrane irritation. Ingestion of iron sulfate symptoms include heartburn, nausea, gastric discomfort, constipation or diarrhea. Symptoms of severe poisoning may occur between 30 minutes to several hours. Severe hemorrhagic gastritis with abdominal pain, retching, violent diarrhea and vomiting may occur. Circulatory system may be affected with symptoms of shock, rapid, weak or no pulse, severe hypotension and pulmonary changes with dyspnea, and emphysema may occur. The average lethal dose of pure concentrated iron sulfate is 200-250 mg/kg body weight.

Chronic: Repeated exposure may cause dermatitis or conjunctivitis of eye. Reproductive effects have been reported in animals with administration of concentrated iron sulfate.

Emergency First-Aid Procedures

Eyes: Flush with potable water as needed for 5-15 minutes. If irritation persists, get medical attention.

Skin: Remove contaminated clothing. Shower and shampoo with clean water and soap to remove all traces of fertilizer from skin and hair.

Inhalation: If inhaled, remove to fresh air at once and call for emergency medical assistance immediately if irritation persists.

Ingestion: Consult medical assistance if swallowed.

Notes to Physician: In patients not in shock or coma, induce emesis with syrup of ipecac if vomiting has not occurred. Flow with gastric lavage using deferoxamine, 2 grams in 1 liter of water which contains sodium bicarbonate 20 gm/L. Leave 10 grams of deferoxamine in 50 ml of 5% sodium bicarbonate in the stomach. Maintain airway, blood pressure and respiration. Treat symptomatically and supportively. (Dreisbach, Handbook of Poisoning, 11th edition.)

The decision whether the severity of poisoning requires administering of any antidotes and actual dose required should be made by qualified medical personnel.

Toxicity Information:

Eye Irritation: Contact may cause moderate to severe eye irritation.

Skin Irritation: Contact may cause mild to moderate skin irritation.

Positive Teratogen or Mutagen Carcinogen(NTP): No Potential Carcinogen (IARC or OSHA): No

VI. REACTIVITY

Stability: ☒ Stable ☐ Unstable

Conditions to Avoid: Storage near strong alkaline materials.

Incompatibility: Strong base materials.

Hazardous Decomposition Products: Toxic gases emitted under combustion include oxides of carbon, iron and sulfur.

Hazardous Polymerization: ☒ Will not occur ☐ Will occur

VII. SPILL, LEAK, AND DISPOSAL PROCEDURES

If material is spilled: Remove all sources of ignition. Wear NICHE/OSHA approved dust respirators. Follow OSHA regulations for respirator use. (See 29 CFR 1910.134.) Shovel or sweep up and reuse. Use approved liquid spray to reduce dust when sweeping or shoveling.

Waste Disposal Method: Dispose of contaminated product, empty containers and materials used in cleaning up spills and leaks in a manner approved for this material. Consult appropriate federal, state and local regulatory agencies to ascertain proper disposal procedures.

VIII. SPECIAL PROTECTION INFORMATION

Protective Equipment Suggested for Outdoor Application:

☒ Impervious Gloves ☐ Dust Mask ☐ Respirator(use NICHE/MSHA approved)

☐ Impervious Boots ☒ Clean Clothing ☒ Eye Goggles / Safety Glasses

Protective Equipment Suggested for Confined Areas:

☒ Sufficient Ventilation ☒ Respirator(use NIOSH/MSHA approved) ☒ Dust Mask

☒ Splash Goggles/Safety Glasses

☒ Eyewash Station ☒ Emergency Shower ☐ Impervious Apron

IX. STORAGE AND HANDLING

Precautions: Store in a cool, dry place if possible. Separate from other pesticides, fertilizers, seed, feed, foodstuffs, and away from drains, sewers, and water sources.

Other Precautions: Store in original, sealed containers. Keep containers closed when not in use. Do not spill on skin or get in eyes. Do not allow storage temperatures to exceed 120°F.

X. FEDERAL REGULATORY INFORMATION:

SARA TITLE III; SEC. 311/312 HAZARD CATEGORIES

Y Immediate (acute) Health

SEC 302: NA

N Delayed (Chronic) Health

SEC 313: NA

N Fire

CERCLA RQ: 1000 lbs (Iron sulfate)

N Sudden Release of Pressure

CAA RQ: NA

N Reactivity

EPA Reg. No.: NA

HM 181 Shipping Name: Not Regulated.

NA = Not Applicable

ND = Not Determined

Preparation and distribution of this Material Safety Data Sheet done by LESCO, Inc., 15885 Sprague Road, Strongsville, Ohio 44136-1799, pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200).

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